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RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/870,406A

TIME: 15:28:43

Input Set : A:\407T-907720US.txt

Output Set: N:\CRF4\09122002\I870406A.raw

ENTERED

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3 <110> APPLICANT: LAGARIAS, JOHN
4   KOICHI, TAKAYUKI
5   FRANKENBERG, NICOLE
6   GAMBETTA, GREGORY
7   MONTGOMERY, BERONDA
9 <120> TITLE OF INVENTION: HY2 FAMILY OF BILIN REDUCTASES
11 <130> FILE REFERENCE: 407T-907720US
13 <140> CURRENT APPLICATION NUMBER: US 09/870,406A
C--> 14 <141> CURRENT FILING DATE: 2002-09-04
16 <150> PRIOR APPLICATION NUMBER: 60/271,758
17 <151> PRIOR FILING DATE: 2001-02-26
19 <150> PRIOR APPLICATION NUMBER: 60/210,286
20 <151> PRIOR FILING DATE: 2000-06-08
22 <160> NUMBER OF SEQ ID NOS: 57
24 <170> SOFTWARE: PatentIn version 3.0
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27 <211> LENGTH: 30
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32 <223> OTHER INFORMATION: Primer
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C--> 41 <213> ORGANISM: Artificial
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56 <223> OTHER INFORMATION: Primer
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64 <212> TYPE: DNA
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68 <223> OTHER INFORMATION: Primer
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82 <400> SEQUENCE: 5
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86 <210> SEQ ID NO: 6
87 <211> LENGTH: 21
88 <212> TYPE: DNA
C--> 89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Primer
94 <400> SEQUENCE: 6
95 ctggtgtggt tgatcgaatc t            21
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 20
100 <212> TYPE: DNA
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103 <220> FEATURE:
104 <223> OTHER INFORMATION: Primer
106 <400> SEQUENCE: 7
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111 <211> LENGTH: 20
112 <212> TYPE: DNA
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115 <220> FEATURE:
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118 <400> SEQUENCE: 8
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123 <211> LENGTH: 22
124 <212> TYPE: DNA
C--> 125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Primer
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134 <210> SEQ ID NO: 10
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136 <212> TYPE: DNA
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Input Set : A:\407T-907720US.txt

Output Set: N:\CRF4\09122002\I870406A.raw

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151 <220> FEATURE:
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160 <212> TYPE: DNA
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163 <220> FEATURE:
164 <223> OTHER INFORMATION: Primer
166 <400> SEQUENCE: 12
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172 <212> TYPE: DNA
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175 <220> FEATURE:
176 <223> OTHER INFORMATION: Primer
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182 <210> SEQ ID NO: 14
183 <211> LENGTH: 20
184 <212> TYPE: DNA
C--> 185 <213> ORGANISM: Artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Primer
190 <400> SEQUENCE: 14
191 gctcgaggaa aagtcattcca                                20
194 <210> SEQ ID NO: 15
195 <211> LENGTH: 20
196 <212> TYPE: DNA
C--> 197 <213> ORGANISM: Artificial
199 <220> FEATURE:
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208 <212> TYPE: DNA
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DATE: 09/12/2002

PATENT APPLICATION: US/09/870,406A

TIME: 15:28:44

Input Set : A:\407T-907720US.txt

Output Set: N:\CRF4\09122002\I870406A.raw

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223 <220> FEATURE:
224 <223> OTHER INFORMATION: Primer
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232 <212> TYPE: DNA
C--> 233 <213> ORGANISM: Artificial
235 <220> FEATURE:
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243 <211> LENGTH: 28
244 <212> TYPE: DNA
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247 <220> FEATURE:
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250 <400> SEQUENCE: 19
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254 <210> SEQ ID NO: 20
255 <211> LENGTH: 36
256 <212> TYPE: DNA
C--> 257 <213> ORGANISM: Artificial
259 <220> FEATURE:
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262 <400> SEQUENCE: 20
263 acgcgtcgac tattattgga taacatcaaa taagac            36
266 <210> SEQ ID NO: 21
267 <211> LENGTH: 29
268 <212> TYPE: DNA
C--> 269 <213> ORGANISM: Artificial
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Primer
274 <400> SEQUENCE: 21
275 ggaattcatc ttgattcat ttctcaatg                      29
278 <210> SEQ ID NO: 22
279 <211> LENGTH: 36
280 <212> TYPE: DNA
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283 <220> FEATURE:
284 <223> OTHER INFORMATION: Primer
286 <400> SEQUENCE: 22

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RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/870,406A

TIME: 15:28:44

Input Set : A:\407T-907720US.txt

Output Set: N:\CRF4\09122002\I870406A.raw

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295 <220> FEATURE:
296 <223> OTHER INFORMATION: Primer
298 <400> SEQUENCE: 23
299 ggaattcatc acaaatcaaa gattcaaaag c 31
302 <210> SEQ ID NO: 24
303 <211> LENGTH: 40
304 <212> TYPE: DNA
C--> 305 <213> ORGANISM: Artificial
307 <220> FEATURE:
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310 <400> SEQUENCE: 24
311 atagtttagcg gccgcttata gatcaaaaag cacagtgtgg 40
314 <210> SEQ ID NO: 25
315 <211> LENGTH: 30
316 <212> TYPE: DNA
C--> 317 <213> ORGANISM: Artificial
319 <220> FEATURE:
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322 <400> SEQUENCE: 25
323 ggaattcatc tcacttactt ccattccctc 30
326 <210> SEQ ID NO: 26
327 <211> LENGTH: 37
328 <212> TYPE: DNA
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331 <220> FEATURE:
332 <223> OTHER INFORMATION: Primer
334 <400> SEQUENCE: 26
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339 <211> LENGTH: 3997
340 <212> TYPE: DNA
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343 <220> FEATURE:
344 <223> OTHER INFORMATION: Plsmid pPROLarA122/H01-RBS-SLR0116
346 <400> SEQUENCE: 27
347 cagaattcat taaagaggag aaaggtacca tgagtgtcaa cttagcttcc cagttgcggg 60
349 aagggacgaa aaaatcccac tccatggcgg agaacgtcgg ctttgtcaaa tgcttcctca 120
351 agggcggttg cgagaaaaat tccatccgta agctgggttg caatctctac tttgtctaca 180
353 gtgccatgga agaggaaatg gcaaaattta aggaacctcc catcctcagc cacatttact 240
355 tccccgaact caaccgcaaa caaagcctag agcaagacct gcaattctat tacggctcca 300
357 actggcggca agaagtgaat atttctgccg ctggccaagc ctatgtggac caggtccggc 360
359 aagtggccgc tacggcccct gaattgttgg tggcccattc ctacaccogt tacctggggg 420
361 atctttccgg cggtcgaatt ctcaagaaaa ttgcccacaa tgccatgaat ctccacgatg 480
363 gtggcacagc tttctatgaa tttgccgaca ttgatgacga aaaggctttt aaaaatacct 540

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/12/2002
PATENT APPLICATION: US/09/870,406A TIME: 15:28:45

Input Set : A:\407T-907720US.txt
Output Set: N:\CRF4\09122002\I870406A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31